

Blue Print Top Tip

Hyundai Santa Fe – Dual Mass Flywheel (DMF) to Single Mass Flywheel (SMF) Conversion

Applicable References: ADG03097, ADG03501, ADG03098

Applications: Hyundai Santa Fe 2.0 Diesel (D4EA)

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Running Specification Change From Dual Mass to Single Mass flywheel by Hyundai Motors

In cases where Hyundai have received complaints of premature clutch wear and burning, the dual mass flywheel & clutch assembly may have been replaced with a single mass flywheel and clutch as part of a running specification change.

This only applies where the vehicle has been subjected to medium or severe clutch usage conditions (e.g. regular towing of heavy trailers and/or hill starting), and where Hyundai customer services have directly authorised the change.

By replacing the dual mass flywheel with the single mass, the clutch is more likely to tolerate the higher operating temperatures, however it is important that the customer accepts that the transmission noise at idle may be increased.

Hyundai have an additional minor ECM upgrade for severe cases to improve vehicle torque in first and reverse gears. This ECM upgrade is only available from Hyundai.

The bulletin only applies to the Santa Fe 2.0 diesel (D4EA) 4x4 with manual transaxle, produced before June 30th 2003, and any vehicle converted from Dual Mass flywheel to Single Mass should have 'SMF' marked in indelible ink on the transaxle casing as part of the rework.

Blue Print currently catalogue and stock both types of clutch and the Single Mass flywheel for replacement during their normal service life, and also supply the 'kitted' components required to carry out the conversion. However, please note that this conversion kit is only offered as an alternative supply source to Hyundai.

The part numbers should be taken from the current Blue Print applications, and will comprise of the following;

ADG03097 Clutch Kit (Single Mass flywheel type) - Includes disc, cover and bearing.

ADG03501 Flywheel (Single Mass)

ADG03098 Flywheel Conversion Kit - Includes clutch kit, flywheel, 6 x clutch cover bolts and 8 x flywheel retaining bolts.

Please note:

- Any specification change to a vehicle still within the manufacturers warranty period **MUST** have prior authority from Hyundai Customer Services (or the warranty cover may be invalidated).
- The cause of any premature clutch failure should be investigated fully before considering any possible advantages of converting from Dual Mass Flywheel to Single Mass.
- The vehicle owner must be correctly informed and the appropriate permissions obtained prior to changing the vehicle clutch specification.
- The ECM software upgrade option should be considered in the above, and is only available from Hyundai.
- The Hyundai bulletin was available to Hyundai dealers as TSB2577, number 3-41-P13-SM dated April 2nd 2004 (subject to changes by Hyundai).



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